

SEQUENCE LISTING

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ENDO, Masahiro
KATO, Ikunoshin

<120> FUNGAL ANTIGENS AND PROCESS FOR PRODUCING THE SAME

<130> 1422-0502P

<140> UNKNOWN

<141> 2001-10-26

<150> 09/262,856

<151> 1999-03-04

<160> 15

<170> PatentIn Ver. 2.0

<210> 1

<211> 50

<212> PRT

<213> Candida albicans

<220>

<221> Unsure

<222> (1)..(50)

<223> any Xaa = any amino acid, unknown or other

<400> 1

Ala Ser Thr Lys Lys Tyr Asp Val Val Val Ile Gly Gly Gly Pro Gly
1 5 10 15

Gly Tyr Val Ala Ala Ile Lys Ala Ala Gln Leu Gly Leu Asn Thr Ala
20 25 30

Xaa Ile Glu Lys Arg Gly Ala Leu Gly Gly Thr Xaa Leu Asn Val Gly
35 40 45

Xaa Ile
50

<210> 2

<211> 30

<212> PRT

<213> Candida albicans

<220>

<221> Unsure

<222> (1)..(30)

<223> any Xaa = any amino acid, unknown or other

<400> 2

Lys Tyr Ser Leu Pro Glu Leu Asp Tyr Glu Phe Ser Ala Thr Glu Pro

1 5 10 15
Tyr Ile Ser Gly Gln Ile Asn Glu Ile Xaa Tyr Thr Xaa Xaa
20 25 30

<210> 3
<211> 31
<212> PRT
<213> Candida albicans

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Ala Ser Ala Glu Pro Thr Leu Lys Gln Arg Leu Glu Glu Ile Leu Pro
1 5 10 15

Ala Lys Ala Glu Glu Val Lys Gln Phe Lys Lys Glu His Gly Lys
20 25 30

<210> 4
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<212> PRT
<213> Candida albicans

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Lys Phe Thr Asp Asp Tyr Tyr Ser Lys Ile Ala Asp Asp Tyr Ile Glu
1 5 10 15

Phe Thr Tyr Lys Asn Pro Thr Ile Tyr His Val Val Asn Phe
20 25 30

<210> 5
<211> 491
<212> PRT
<213> Candida albicans

<400> 5
Met Leu Arg Ser Phe Lys Ser Ile Pro Ala Asn Gly Lys Leu Ala Gln
1 5 10 15

Phe Val Arg Tyr Ala Ser Thr Lys Lys Tyr Asp Val Val Val Ile Gly
20 25 30

Gly Gly Pro Gly Gly Tyr Val Ala Ala Ile Lys Ala Ala Gln Leu Gly
35 40 45

Leu Asn Thr Ala Cys Ile Glu Lys Arg Gly Ala Leu Gly Gly Thr Cys
50 55 60

Leu Asn Val Gly Cys Ile Pro Ser Lys Ser Leu Leu Asn Asn Ser His
65 70 75 80

Leu Leu His Gln Ile Gln His Glu Ala Lys Glu Arg Gly Ile Ser Ile
85 90 95

Gln Gly Glu Val Gly Val Asp Phe Pro Lys Leu Met Ala Ala Lys Glu

09987190.11301

09087190-111301

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Thr	Val	Lys	Val	Thr	Pro	Ile	Asp	Gly	Ser	Glu	Ala	Gln	Glu	Val	Glu
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Ala	Asp	His	Ile	Ile	Val	Ala	Thr	Gly	Ser	Glu	Pro	Thr	Pro	Phe	Pro
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Gly	Ile	Glu	Ile	Asp	Glu	Glu	Arg	Ile	Val	Thr	Ser	Thr	Gly	Ile	Leu
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Val	Ala	Lys	Gln	Ser	Gln	Lys	Leu	Leu	Ala	Lys	Gln	Gly	Leu	Asp	Phe
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Ala	Asp	Val	Leu	Leu	Val	Ala	Ile	Gly	Arg	Arg	Pro	Phe	Thr	Glu	Gly
	290					295					300				
Leu	Asn	Phe	Glu	Ala	Ile	Gly	Leu	Glu	Lys	Asp	Asn	Lys	Gly	Arg	Leu
	305					310					315				320
Ile	Ile	Asp	Asp	Gln	Phe	Lys	Thr	Lys	His	Asp	His	Ile	Arg	Val	Ile
				325					330					335	
Gly	Asp	Val	Thr	Phe	Gly	Pro	Met	Leu	Ala	His	Lys	Ala	Glu	Glu	Glu
			340					345					350		
Gly	Ile	Ala	Ala	Ala	Glu	Tyr	Ile	Lys	Lys	Gly	His	Gly	His	Val	Asn
		355					360					365			
Tyr	Ala	Asn	Ile	Pro	Ser	Val	Met	Tyr	Thr	His	Pro	Glu	Val	Ala	Trp
	370					375					380				
Val	Gly	Leu	Asn	Glu	Glu	Gln	Leu	Lys	Glu	Gln	Gly	Ile	Lys	Tyr	Lys
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Val	Gly	Lys	Phe	Pro	Phe	Ile	Ala	Asn	Ser	Arg	Ala	Lys	Thr	Asn	Met

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Ala	Leu	Ala	Thr	Phe	Asp	Lys	Pro	Ile	Asn	Phe						
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<210> 6
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 <212> PRT
 <213> Candida albicans

<400> 6																
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			20					25					30			
Ala	Val	Glu	Ala	Lys	Ser	Lys	Gly	Glu	Val	Lys	Lys	Leu	Val	Ala	Leu	
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Gln	Lys	Ala	Ile	Asn	Phe	Asn	Gly	Gly	Gly	Tyr	Leu	Asn	His	Cys	Leu	
	50					55					60					
Trp	Trp	Lys	Asn	Leu	Ala	Pro	Val	Ser	His	Gly	Gly	Gly	Gln	Pro	Pro	
65				70						75					80	
Ser	Glu	Asp	Ser	Lys	Leu	Gly	Lys	Gln	Ile	Val	Lys	Gln	Phe	Gly	Ser	
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Leu	Asp	Lys	Leu	Ile	Glu	Ile	Thr	Asn	Gly	Lys	Leu	Ala	Gly	Ile	Gln	
		100						105					110			
Gly	Ser	Gly	Trp	Ala	Phe	Ile	Val	Lys	Asn	Lys	Ala	Asn	Gly	Asp	Thr	
		115					120						125			
Ile	Asp	Val	Ile	Thr	Thr	Ala	Asn	Gln	Asp	Thr	Val	Thr	Asp	Leu	Asn	
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Leu	Val	Pro	Leu	Ile	Ala	Ile	Asp	Ala	Trp	Lys	His	Ala	Tyr	Tyr	Leu	
145					150					155					160	
Gln	Tyr	Gln	Asn	Val	Lys	Ala	Asp	Tyr	Phe	Lys	Asn	Leu	Trp	His	Val	
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Ile Asn Trp Lys Glu Ala Glu Arg Arg Phe Glu Phe
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<210> 7
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 <212> DNA
 <213> Candida albicans

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 ggggtacgtt ctgccatcaa ggccgctcaa ttaggattaa acactgcctg tattgaaaaa 240
 agaggtgcat tgggtggtac ttgtttgaat gttggttgta tcccatccaa atctttattg 300
 aacaactccc atttattaca ccaaatccaa cacgaagcca aagaaagagg tatttccatc 360
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 gccggttctt ttgttaacga aaaaaccgtc aaagtcaact caattgacgg cagcgaagca 540
 caagaagttg aagccgacca catcatcggt gctactgggt ctgaaccaac tccattccca 600
 ggtattgaaa tagatgaaga agaattgtc acttctactg gtattttatc attgaaagaa 660
 gtaccagaaa gattagccat cattgggtga ggtatcattg gtttggaat ggcttccgtt 720
 tacgcaagat tgggtctctaa agtcactggt atcgaattcc agaacgctat tgggtgccgtt 780
 atggatgctg aagttgctaa acaatctcaa aaattattgg ccaaacaagg tttggacttc 840
 aaattaggtg caaaggttgt taaaggtgaa agagatgggt aagtgggtcaa gatcgaagtt 900
 gaagatgtca aatccggtaa aaaatctgac cttgaagccg atgtcttggt gggtgccatt 960
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 tatactcacc cagaagttgc ctgggttggt ttaaacgaag aacaattgaa agaacaaggc 1260
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 atacaacagt aatgaaaagt aaatactaaa ataatttgat ttgatttttt ttactttttt 1620
 ttactctttt tgctctcatt tttaagggtta tctaaatact gaattatctg agccatataa 1680
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 aaaaaaaaaa 1750

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 <212> DNA
 <213> Candida albicans

<400> 8
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 gaagttaaaa aattgggttg cttacaaaaa gccatcaatt tcaacggtgg tggttacctc 180
 aatcattggt tgtggtggaa aaacttggt cctgtctctc acggtgggtg tcaaccacca 240
 agtgaagatt ccaaattagg taacaaaatc gtcaacaat ttggttcttt ggataaattg 300
 attgaaatca ccaatggcaa attggctggt attcaagggt ctggatgggc ttttattggt 360
 aaaaacaaag ccaatggtga tactattgat gtcataacca ctgctaacca agatactgtt 420
 actgatctaa acttggttcc attgattgct attgatgctt ggaaacatgc ttattatttg 480
 caataccaaa atgttaaagc tgattacttc aagaaccttt ggcatgttat caactggaag 540
 gaagctgaaa gaagatttga attttaagtt actggacaaa agtcaagtac atatttaaat 600

ccaatattag aaaataaaaag agttacttcc gatagtgtg attttgttta atatttcccc 660
 attgtatata agtatatatg caagaatata ttcttgattg tgatgtaaaa aaaaaaaaaa 720
 a 721

<210> 9
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
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 <222> (3)
 <223> i

<220>
 <221> modified_base
 <222> (9)
 <223> i

<220>
 <221> modified_base
 <222> (12)
 <223> i

<220>
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 <222> (15)
 <223> i

<220>
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<400> 9
 ggntaygtng cngcnathaa rgc 23

<210> 10
 <211> 23
 <212> DNA
 <213> Artificial Sequence

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 <221> modified_base
 <222> (6)
 <223> i

<220>
 <221> modified_base
 <222> (15)
 <223> i

<220>
 <221> modified_base
 <222> (18)
 <223> i

<220>
 <223> Description of Artificial Sequence: Synthetic DNA

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944

<210> 14

<211> 30

<212> PRT

<213> Candida albicans

<400> 14

Tyr Lys Val Ala Val Leu Gly Ala Gly Gly Gly Ile Gly Gln Pro Leu
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Ser Leu Leu Leu Lys Leu Asn His Lys Val Thr Asp Leu Ala
20 25 30

<210> 15

<211> 30

<212> PRT

<213> Candida albicans

<400> 15

Ala Pro Thr Phe Thr Asn Ser Asn Gly Gln Pro Ile Pro Glu Pro Phe
1 5 10 15

Ala Thr Gln Arg Val Gly Gln His Gly Pro Leu Leu Leu Gln
20 25 30

09097190-11301
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